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(54) Title: MICROPOROUS POLYMER MATERIAL

(57) Abstract: A microporous material comprises organic macromolecules comprised of first generally planar species connected by rigid linkers having a point of contortion such that two adjacent first planar species connected by the linker are held in non-coplanar orientation, subject to the proviso that the first species are other than porphyrinic macrocycles. Materials in accordance with the invention have a surface area of at least 300m<sup>2</sup> g<sup>-1</sup>, eg in the range 700-1500 m<sup>2</sup> g<sup>-1</sup>. Preferred points of contortion are spiro groups, bridged ring moieties and sterically congested single covalent bonds around which there is restricted rotation.

WO 2005/012397 A2